RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	09/964.8588
Source:	1FW/6
Date Processed by STIC:	6/9/06
·	777

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 06/09/2006
PATENT APPLICATION: US/09/964,858B TIME: 09:49:21

Input Set : A:\Sequence_09-964,858.txt
Output Set: N:\CRF4\06092006\I964858B.raw

3 <110> APPLICANT: HOSTETTER, Margaret K. 4 DEVORE-CARTER, Denise 6 <120> TITLE OF INVENTION: ANTIBODIES TO THE PROPEPTIDE OF CANDIDA ALBICANS 8 <130> FILE REFERENCE: P07274US02/BAS 10 <140> CURRENT APPLICATION NUMBER: US 09/964,858B 11 <141> CURRENT FILING DATE: 2001-09-28 13 <150> PRIOR APPLICATION NUMBER: US 60/237,082 14 <151> PRIOR FILING DATE: 2000-09-28 16 <160> NUMBER OF SEQ ID NOS: 13 18 <170> SOFTWARE: PatentIn version 3.1 20 <210> SEQ ID NO: 1 21 <211> LENGTH: 1664 22 <212> TYPE: PRT 23 <213 > ORGANISM: Candida albicans 25 <400> SEQUENCE: 1 27 Met Asn Ser Thr Pro Ser Lys Leu Leu Pro Ile Asp Lys His Ser His 31 Leu Gln Leu Gln Pro Gln Ser Ser Ser Ala Ser Ile Phe Asn Ser Pro 20 25 35 Thr Lys Pro Leu Asn Phe Pro Arg Thr Asn Ser Lys Pro Ser Leu Asp 39 Pro Asn Ser Ser Ser Asp Thr Tyr Thr Ser Glu Gln Asp Gln Glu Lys 43 Gly Lys Glu Glu Lys Lys Asp Thr Ala Phe Gln Thr Ser Phe Asp Arg 70 47 Asn Phe Asp Leu Asp Asn Ser Ile Asp Ile Gln Gln Thr Ile Gln His 85 90 51 Gln Gln Gln Gln Gln Gln Gln Gln Leu Ser Gln Thr Asp Asn 100 105 55 Asn Leu Ile Asp Glu Phe Ser Phe Gln Thr Pro Met Thr Ser Thr Leu 120 125 59 Asp Leu Thr Lys Gln Asn Pro Thr Val Asp Lys Val Asn Glu Asn His 130 135 140 63 Ala Pro Thr Tyr Ile Asn Thr Ser Pro Asn Lys Ser Ile Met Lys Lys 67 Ala Thr Pro Lys Ala Ser Pro Lys Lys Val Ala Phe Thr Val Thr Asn 68 165 170 71 Pro Glu Ile His His Tyr Pro Asp Asn Arg Val Glu Glu Glu Asp Gln 185 75 Ser Gln Gln Lys Glu Asp Ser Val Glu Pro Pro Leu Ile Gln His Gln 200 79 Trp Lys Asp Pro Ser Gln Phe Asn Tyr Ser Asp Glu Asp Thr Asn Ala

220

215

210

Input Set : A:\Sequence_09-964,858.txt
Output Set: N:\CRF4\06092006\I964858B.raw

83 Ser Val Pro Pro Thr Pro Pro Leu His Thr Thr Lys Pro Thr Phe Ala 84 225 230 235 87 Gln Leu Leu Asn Lys Asn Asn Glu Val Asn Ser Glu Pro Glu Ala Leu 245 250 91 Thr Asp Met Lys Leu Lys Arg Glu Asn Phe Ser Asn Leu Ser Leu Asp 95 Glu Lys Val Asn Leu Tyr Leu Ser Pro Thr Asn Asn Asn Ser Lys 280 99 Asn Val Ser Asp Met Asp Ser His Leu Gln Asn Leu Gln Asp Ala Ser 295 103 Lys Asn Lys Thr Asn Glu Asn Ile His Asn Leu Ser Phe Ala Leu Lys 310 315 107 Ala Pro Lys Asn Asp Ile Glu Asn Pro Leu Asn Ser Leu Thr Asn Ala 325 330 111 Asp Ile Ser Leu Arg Ser Ser Gly Ser Ser Gln Ser Ser Leu Gln Ser 340 345 115 Leu Arg Asn Asp Asn Arg Val Leu Glu Ser Val Pro Gly Ser Pro Lys 355 360 119 Lys Val Asn Pro Gly Leu Ser Leu Asn Asp Gly Ile Lys Gly Phe Ser 375 123 Asp Glu Val Val Glu Ser Leu Leu Pro Arg Asp Leu Ser Arg Asp Lys 390 395 127 Leu Glu Thr Thr Lys Glu His Asp Ala Pro Glu His Asn Asn Glu Asn 405 410 131 Phe Ile Asp Ala Lys Ser Thr Asn Thr Asn Lys Gly Gln Leu Leu Val 420 425 135 Ser Ser Asp Asp His Leu Asp Ser Phe Asp Arg Ser Tyr Asn His Thr 435 440 445 139 Glu Gln Ser Ile Leu Asn Leu Leu Asn Ser Ala Ser Gln Ser Gln Ile 455 460 143 Ser Leu Asn Ala Leu Glu Lys Gln Arg Gln Thr Gln Glu Gln Glu Gln 470 475 147 Thr Gln Ala Ala Glu Pro Glu Glu Glu Thr Ser Phe Ser Asp Asn Ile 485 490 151 Lys Val Lys Gln Glu Pro Lys Ser Asn Leu Glu Phe Val Lys Val Thr 500 505 510 155 Ile Lys Lys Glu Pro Val Ser Ala Thr Glu Ile Lys Ala Pro Lys Arg 515 520 159 Glu Phe Ser Ser Arg Ile Leu Arg Ile Lys Asn Glu Asp Glu Ile Ala 540 535 163 Glu Pro Ala Asp Ile His Pro Lys Lys Glu Asn Glu Ala Asn Ser His 550 555 167 Val Glu Asp Thr Asp Ala Leu Leu Lys Lys Ala Leu Asn Asp Asp Glu 565 570 171 Glu Ser Asp Thr Thr Gln Asn Ser Thr Lys Met Ser Ile Arg Phe His 585 175 Ile Asp Ser Asp Trp Lys Leu Glu Asp Ser Asn Asp Gly Asp Arg Glu 600 179 Asp Asp Asp Ile Ser Arg Phe Glu Lys Ser Asp Ile Leu Asn Asp

Input Set : A:\Sequence_09-964,858.txt
Output Set: N:\CRF4\06092006\I964858B.raw

180		610			_	_	615			_	_	620		_	_	_
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184	625					630					635					640
187	Ser	Glu	Ile	Thr	Thr	Lys	Thr	Leu	Ala	Pro	Pro	Arg	Ser	Asp	Asn	Asn
188					645					650					655	
191	Asp	Lvs	Glu	Asn	Ser	Lvs	Ser	Leu	Glu	asp	Pro	Ala	Asn	Asn	Glu	Ser
192		-		660		-			665	-				670		
	T.e.11	Gln	Gln		Len	Glu	Val	Pro		Thr	Lvs	Glu	Asn		Ser	Tle
196	LCu	0111	675	0111	шец	014	vul	680	1110		Lys	014	685	1101		
-	T 011	. ה ה		Cox	Cor	7 ~~	т1.		Dro	Dro	C1.,	C1		Thr	T 011	Dro
	Leu		ASII	ser	ser	ASII	Ile	Ala	PIO	PIO	GIU		ьeu	1111	Leu	PIO
200		690	~1		.		695	.	a	5 1	3	700	TT - 7	m1	T	m1
		Val	GIU	Ala	Asn	-	Tyr	Ser	ser	Pne		Asp	vai	Thr	ьуs	
	705					710					715			_		720
207	Phe	Asp	Ala	${ t Tyr}$	Ser	Ser	Phe	Glu	Glu	Ser	Leu	Ser	Arg	Glu	His	Glu
208					725					730					735	
211	Thr	Asp	Ser	Lys	Pro	Ile	Asn	Phe	Ile	Ser	Ile	Trp	His	Lys	Gln	Glu
212				740					745					750		
215	Lys	Gln	Lys	Lys	His	Gln	Ile	His	Lys	Val	Pro	Thr	Lys	Gln	Ile	Ile
216	-		755	-				760	_				765			
	Ala	Ser	Tvr	Gln	Gln	Tvr	Lys	Asn	Glu	Gln	Glu	Ser	Ara	Val	Thr	Ser
220		770	-1-			-1-	775					780	5			
	Δen		Val	Lve	Tle	Pro	Asn	Δla	Tle	Gln	Dhe		Lvs	Phe	Lvs	Glu
	785	L , 5	vul	_,	110	790	11011			Q	795	2,5	27.0		2,5	800
		7 ~~	17-1	Mot	C0*		Arg	17.7	1727	Cor		7 cn	Mot	λαn	7 an	
	vai	ASII	vai	Mec		Arg	Arg	vai	vai		FIU	АБР	1.16.0	Asp	815	пеа
228	7 ~~	1707	Com	~1 m	805 Dha	T 011	Dwa	C1	T 011	810	~1	7	000	~1··		Trea
	ASII	vai	ser		Pne	ьeu	Pro	GIU		ser	GIU	Asp	ser	_	Pile	гур
232	_	_	_	820		_	_	_	825	_	1	_		830	•	
	Asp	ьeu		Pne	Ala	Asn	Tyr		Asn	Asn	Thr	Asn	_	Pro	Arg	ser
236	_,	_,	835	_	_	_,	_	840		_	_	_	845	_	_	_
	Phe		Pro	Leu	Ser	Thr	Lys	Asn	Val	Leu	ser		He	Asp	Asn	Asp
240		850	_	_			855					860				
		Asn	Val	Val	Glu		Pro	Glu	Pro	Lys		Tyr	Ala	Glu	Ile	
	865					870					875					880
247	Asn	Ala	Arg	Arg	Leu	Ser	Ala	Asn	Lys	Ala	Ala	Pro	Asn	Gln	Ala	Pro
248					885					890					895	
251	Pro	Leu	Pro	Pro	Gln	Arg	Gln	Pro	Ser	Ser	Thr	Arg	Ser	Asn	Ser	Asn
252				900					905					910		
255	Lys	Arg	Val	Ser	Arg	Phe	Arg	Val	Pro	Thr	Phe	Glu	Ile	Arg	Arg	Thr
256	-	-	915		_		_	920					925			
259	Ser	Ser	Ala	Leu	Ala	Pro	Cys	Asp	Met	Tyr	Asn	Asp	Ile	Phe	Asp	Asp
260		930					935	_		•		940			-	•
	Phe	Glv	Ala	Glv	Ser	Lvs	Pro	Thr	Tle	Lvs	Ala	Glu	Glv	Met	Lvs	Thr
	945	1		1		950				-1-	955		1		-1-	960
		Pro	Ser	Met	Agn		Asp	Acn	Va 1	Lare		בוד	T,ביי	Agn	Δla	
	ыeu	110	DET	NEC	965	цγэ	voh	voh	Val	970	AT 9	116	пеп	WOII	975	Lyb
268	T	Q1	77 ~ 7	π Ъ		7 ~~	α1	m	T1.		7.7 -	T	T 6	₹7 ~ 7		Clr.
	пλа	GIÀ	val		GTII	ASP	Glu	TÀT		ASII	AId	гу	ьeu		нар	GTII
272	.	D -	.	980	.	•			985	. -		. ~7	_	990		01
	rys	Pro	_	гуѕ	Asn	ser	тте			c As	o Pro	o GI			rg Ty	r Glu
276			995					1000	J				100	75		

Input Set : A:\Sequence_09-964,858.txt
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279 280	Glu	Leu 1010	Gln	Gln	Thr	Ala	Ser 1015	Ile	His	Asn	Ala	Thr 1020	Ile	Asp	Ser
283	Ser	Ile	Tyr	Gly	Arg	Pro	Asp	Ser	Ile	Ser	Thr	Asp	Met	Leu	Pro
284	m	1025	0	7	~1	T	1030	7	D	D	ml	1035	T	T	G
287	Tyr	1040	ser	Asp	GIU	Leu	Lys 1045	гÀг	Pro	Pro	Thr	1050	Leu	Leu	ser
291 292	Ala	Asp 1055	Arg	Leu	Phe	Met	Glu 1060	Gln	Glu	Val	His	Pro 1065	Leu	Arg	Ser
	Asn		Val	Leu	Val	His	Pro	Glv	Ala	Glv	Ala		Thr	Asn	Ser
296		1070					1075	011		0-1		1080			
	Ser	Met	Leu	Pro	Glu	Pro	Asp	Phe	Glu	Leu	Ile	Asn	Ser	Pro	Ala
300		1085					1090					1095			
303	Arg	Asn	Val	Ser	Asn	Asn	Ser	Asp	Asn	Val	Ala	Ile	Ser	Gly	Asn
304		1100					1105					1110			
307	Ala	Ser	Thr	Ile	Ser	Phe	Asn	Gln	Leu	Asp	Met		Phe	Asp	Asp
308	_	1115					1120	_				1125	_		
	Gln		Thr	Ile	Gly	Gln	Lys	Ile	Gln	Glu	Gln		Ala	Ser	Lys
312	_	1130	_			_	1135	_	_	_		1140		_	
	Ser		Asn	Thr	Val	Arg	Gly	Asp	Asp	Asp	GIY		Ala	Ser	Ala
316	D	1145	m1	D	7	m\	1150	m1	T	T	~1	1155	- 1 -	0	0
	Pro	Glu	Thr	Pro	Arg	Thr		Thr	гÀг	гÀг	GIU	Ser	тте	Ser	ser
320	T ***	1160	71-	Tira	T 011	Cor	1165 Ser	71-	Cor	Dro	7. ~~~	1170	°0×	Dro	T10
324	гуу	Pro 1175	Ala	ьуѕ	ьeu	ser	1180	АТА	ser	PIO	Arg	Lys 1185	ser	Pro	TIE
	Lve	Ile	Glv	Ser	Pro	Wal	Arg	Va 1	т1Б	Lvc	Larg		G] v	Ser	Tle
328	цуз	1190	Ory	BCI	110	vai	1195	vai	110	Буз	шуз	1200	Gry	JCI	110
	Ala		Tle	Glu	Pro	Tle	Pro	Lvs	Ala	Thr	His		Pro	Lys	Lvs
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336		1220		•			1225				•	1230		-	•
339	Gly	Ile	Ser	Pro	Ser	Ser	Gly	Ser	Glu	His	Gln	Gln	His	Asn	Pro
340		1235					1240					1245			
343	Ser	Met	Val	Ser	Val	Pro	Ser	Gln	Tyr	Thr	Asp	Ala	Thr	Ser	Thr
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347	۷al	Pro	Asp	Glu	Asn	Lys	Asp	Val	Gln	His	Lys	Pro	Arg	Glu	Lys
348	_	1265	_				1270					1275			
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352	~3	1280	_,	_		_	1285			_	_	1290		_	_
	GIn		Thr	Asp	IIе	Pro	Gly	Val	Val	Asp	Asp		lle	Pro	Asp
356	1707	1295	T 011	~1 m	~1	7	1300	T	T 011	Dha	Dha	1305	17-1	T	~1··
	vaı	_	ьeu	GIII	GIU	Arg	Gly	ьуѕ	ьeu	Pne	Pne	_	vai	ьeu	GIY
360	Tlo	1310	λcn	Tla	Λcn	T.011	1315 Pro	Acn	Tlo	Λcn	Thr	1320	Larg	Clv.	Arg
364	110	1325	ASII	116	USII	пец	1330	nsp	110	MOII	1111	1335	шуз	Gry	Arg
	Phe	Thr	T.eu	Thr	T.e.11	Asn	Asn	Glv	Val	His	Cvs	Val	Thr	Thr	Pro
368		1340	cu		u	11.50	1345	O-1	•41		Cys	1350			110
	Glu		Asn	Met	Asp	Asp	His	Asn	Val	Ala	Ile	Gly	Lvs	Glu	Phe
372		1355				- F	1360					1365	_1 -		
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Input Set : A:\Sequence_09-964,858.txt
Output Set: N:\CRF4\06092006\I964858B.raw

256							1255									
		1370		~3	_	_	1375		m1	_		1380		m)	~1	
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380		1385					1390					1395				
383	Lys	_		Val	Lys	Ser	Arg		Arg	Leu	Ser	_	Leu	Phe	Gly	
384		1400					1405					1410				
387	Ser	Lys	Asp	Ile	Ile	${ t Thr}$	Thr	Thr	Lys	Phe	Val	Pro	Thr	Glu	Val	
388		1415					1420					1425				
391	Lys	Asp	Thr	Trp	Ala	Asn	Lys	Phe	Ala	Pro	Asp	Gly	Ser	Phe	Ala	
392		1430					1435					1440				
395	Arg	Cys	Tyr	Ile	Asp	Leu	Gln	Gln	Phe	Glu	Asp	Gln	Ile	Thr	Gly	
396	_	1445	_		_		1450				-	1455			_	
399	Lys	Ala	Ser	Gln	Phe	Asp	Leu	Asn	Cys	Phe	Asn	Glu	Trp	Glu	Thr	
400	_	1460				-	1465		-			1470	-			
				Glv	Asn	Gln	Pro		Lvs	Ara	Glv		Pro	Tvr	Lvs	
404		1475		U-1			1480		_,_	5	U -1	1485		-1-	-7-	
				T.011	Glu	Va l	Lys		T.011	ጥኒፖ	Val		Δτα	Ser	Agn	
408	110	1490		пса	GIU	Val	1495		пси	ı yı	Vai	1500	rrg	JCI	rob	
	Dro			тіо	T 011	Dwo	Thr		T1.	7 ~~	Cox		П	C1	Cor	
	PIO	_		TIE	ьеи	PIO			TIE	Arg	ser		ıyı	GIU	Ser	
412	- 1 -	1505		T	7	7	1510		3	7	m	1515 Db-	~1	a1		
	rre			ьeu	ASII	ASII	Glu		ASII	ASI	Tyr		GIU	GIY	TYL	
416	.	1520		~ 1	~1	~ 1	1525			-1.	D 1	1530	.		D1	
	ьeu			GIU	GIY	GIY	Asp	_	Pro	тте	Pne	_	_	Arg	Pne	
420		1535					1540		_		'	1545			_	
	Phe	-		Met	GLY	Thr	Ser		Leu	Ala	Hıs		GIu	He	Ser	
424		1550					1555					1560				
427	His	Lys	Thr	Arg	Ala	Lys	Ile	Asn	Leu	Ser	Lys	Val	Val	Asp	Leu	
428		1565					1570					1575				
431	Ile	Tyr	Val	Asp	Lys	Glu	Asn	Ile	Asp	Arg	Ser	Asn	His	Arg	Asn	
432		1580					1585					1590				
435	Phe	Ser	Asp	Val	Leu	Leu	Leu	Asp	His	Ala	Phe	Lys	Ile	Lys	Phe	
436		1595					1600					1605				
439	Ala	Asn	Gly	Glu	Leu	Ile	Asp	Phe	Cys	Ala	Pro	Asn	Lys	His	Glu	
440		1610					1615					1620				
443	Met	Lys	Ile	Trp	Ile	Gln	Asn	Leu	Gln	Glu	Ile	Ile	Tyr	Arg	Asn	
444		1625		_			1630					1635				
447	Arq	Phe	Arq	Arq	Gln	Pro	Trp	Val	Asn	Leu	Met	Leu	Gln	Gln	Gln	
448		1640		J			1645					1650				
451	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Ser	Ser	Gln	Gln					
452		1655					1660									
	<210)> SE(NO:	2											
		l> LEI														
		2> TYI			-											
					and.	ide .	albica	anc								
)> SE(Lua d	X I D I C	A112								
								~~~					++	2++-	******	60
															gaaactt	60
				_	-	_	-		_		_	_			ccaagt	120
			_		_						_	-		_	ctcggca	180
															gccgagt	240
469	ttag	gatcca	aa at	tcaa	agcto	c tga	atacct	tac a	actag	gcgaa	ac aa	agatca	aaga	gaaa	agggaaa	300

Input Set : A:\Sequence_09-964,858.txt
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## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 3

VERIFICATION SUMMARY

DATE: 06/09/2006 TIME: 09:49:22

PATENT APPLICATION: US/09/964,858B

111.6. 05.15.

Input Set : A:\Sequence_09-964,858.txt
Output Set: N:\CRF4\06092006\I964858B.raw

L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0